No. 716,952. Patented Dec. 30, 1902.

W. A. SNOW.

COW STALL.

(Application filed Apr. 3, 1902.)

(No Model.)

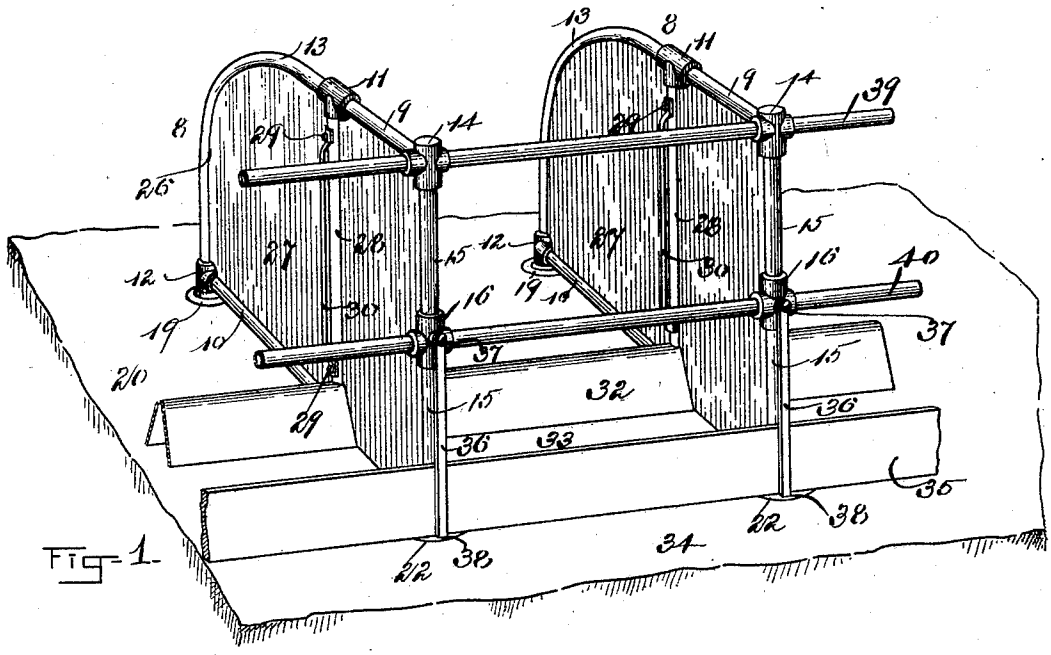


Fig. 1.

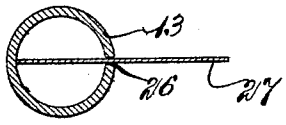


Fig. 3.

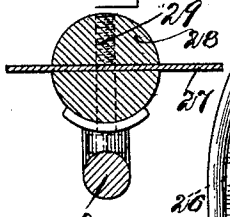


Fig. 4.

Fig. 2.

WITNESSES

Sydney E. Taft.

Franklin O. Low.

INVENTOR-

William A. Snow.

by his Attorney Charles V. Gooding.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM A. SNOW, OF WEST SOMERVILLE, MASSACHUSETTS.

COW-STALL.

SPECIFICATION forming part of Letters Patent No. 716,952, dated December 30, 1902.

Application filed April 3, 1902. Serial No. 101,153. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. SNOW, a citizen of the United States, residing at West Somerville, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Cow-Stalls, of which the following is a specification.

The object of this invention is to provide a cheap, durable, and strong cow-stall which can be thoroughly cleansed and which can be duplicated to form a series of stalls side by side, said stalls being made, preferably, of metal in order that they may be thoroughly cleansed and for sanitary reasons.

The invention consists in a cow-stall comprising a side frame formed of horizontal and vertical lengths of pipe, said lengths of pipe joined together by connections and rigidly fastened to anchors provided in the floor.

The invention again consists, in a cow-stall, of a side frame formed of lengths of pipe, connections joining said lengths of pipe together, the inner sides of said lengths of pipe being provided with a slot, and sheet metal extending across the space inclosed by said pipe and projecting into said slot.

The invention again consists of a cow-stall with side frames formed of pipe and a sheet-metal manger-partition extending transversely of said stall between said side frames.

The invention again consists of certain improved means whereby a manger-cleaning board is attached to the standards at the head of the side frames in such a manner as to be readily raised or detached therefrom, and thus render it easy to cleanse the mangers.

The invention finally consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of my improved cow-stall. Fig. 2 is a side elevation, partly in section, of the same. Fig. 3 is a detail transverse section taken on line 3 3 of Fig. 2. Fig. 4 is a detail transverse section taken on line 4 4 of Fig. 2.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 8 is a side frame constructed in accordance with my invention, consisting of horizontal lengths of pipe 9 and 10, joined by connections 11 and 12, respectively, to a curved length of pipe 13. The horizontal pipe 9 is joined by a connection 14 to a vertical standard 15 at the head of the stall, said standard being formed of two lengths of pipe joined together by a connection 16. The connection 12 has a short length of vertical pipe extending downwardly therefrom into a recess 18, formed in the top of the anchor 19, said anchor being rigidly fast to and embedded in a concrete or granolithic floor 20. The standard 15 also projects downwardly into a recess 21, formed in the upper part of the anchor 22, also embedded in said floor.

The right-hand end of the horizontal pipe 10 screws into a T connection 23, said T connection having a short length of vertical pipe 24, which extends into a recess formed in the upper part of the anchor 25. The inner edge of the standard 15, horizontal pipe 9, curved pipe 13, and horizontal pipe 10 is provided with a slot 26, and within the space inclosed by said standard 15 and pipes 9, 13, and 10 is a sheet of metal 27, extending across said space and into said slot 26, being thus held firmly in position. A vertical standard 28 connects the connections 11 and 23 and is divided longitudinally thereof into two parts, (see Fig. 4,) said parts being held together by the connections 11 and 23 and the sheet metal 27 passing between said parts. The parts forming the standard 28 are further held together by screws 29 29, which serve the additional purpose of holding firmly attached to the standard 28 a hitching-bar 30. A chain 31, attached to said hitching-bar, serves to fasten the cow to the hitching-bar, said chain being capable of being moved up and down upon the hitching-bar without discomfort to the animal. A manger 33 is formed by a sheet-metal partition 32, which extends transversely of the stall between the side frames 8 8, said partition being bent in an inverted-V shape for the sake of strength and also to prevent injury to the cow by presenting a sharp edge upon which she might be accidentally cut while feeding or in lying down. In order to prevent the food from being pushed out of the manger 33 into the passage-way 34 at the head of the stall, a manger-cleaning board 35 is provided, extending transversely of the stalls and across several of said stalls, said manger-board being held in an upright position

against the standards 15 by a retaining-bar 36, fast at the upper end to the connection 16 by a screw 37 and projecting at its lower end into a recess 38, formed in the upper face of the anchor 22.

It will be seen that the manger-cleaning board 35 lies between the standards 15 and the retaining-arms 36, and in order that said cleaning-board may be raised to remove dirt from the manger a space therefor is left between the upper side of said manger-cleaning board and the screw 37. It is evident that if desired the retaining-arms may be removed and the cleaning-board taken out.

Extending transversely of the stalls and from one to the other are horizontal pipes 39 and 40, the horizontal pipe 39 passing through the connection 14 and the horizontal pipe 40 passing through the connection 16. These pipes 39 and 40 form the head of the stall where a series of stalls are used side by side, extend across each of said stalls, and assist in imparting strength and rigidity to the cow-stall as a whole.

Having thus described my invention, what I claim, and desire by Letters Patent to secure, is—

1. In a cow-stall, two side frames, each formed of pipe and having a vertical standard at the head of each of said sides, a retaining-bar attached to each of said standards, and a manger-cleaning board located between said retaining-bar and said standard.

2. In a cow-stall, a side frame formed of pipe and having a vertical standard at the head of said side frame, an anchor rigidly fastened to the floor and provided with two recesses, one to receive the lower end of said standard, and a retaining-arm, its upper end fast to said standard, the lower end entering the other of said recesses.

3. In a cow-stall, a side frame formed of lengths of pipe and having a vertical standard at the head thereof, pipe connections joining said lengths of pipe together, the inner sides of said pipe being provided with slots, a second vertical standard located between the two ends of said side frame and formed in two parts, said parts joined together at their ends by two of said pipe connections, and a sheet of metal extending across the space inclosed by said pipe across and between the two parts of said central vertical standard and projecting into said slots.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM A. SNOW.

Witnesses:
CHARLES S. GOODING,
ANNIE J. DAILEY.